Caspar Lant

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EDUCATION

Bachelor of Science, Physics, Computer Science Minor
New York University, New York, NY
– Society of Physics Students
– Cummulative GPA: 3.7/4.0

Advanced Honors Regents Diploma,
Stuyvesant High School, New York City, June 2014

EXPERIENCE

Feb 2017 –
Present

NYU Shanghai Air Pollution Monitoring Network, Shanghai, China
Student Project Leader – Green Grant Recipient
– Fabrication and deployment of low-cost air-quality monitors based on United Nations Environmmental Programme design
– Air quality information to be made available to all members of the NYU community via internet API and WeChat enterprise account

May – Dec 2017

Leibnitz Institute for Surface Modification (IOM), Berlin, Germany
DAAD RISE Fellow and DURF Scholar
– On-the-fly troubleshooting during high-intensity experimental campaigns
– Analysis of experimental data, presented at Gordon Conference on liquids
– Computer modeling of magnetic bottle spectrometer using SIMION
– Design and development of continuous-flow nitrogen cryostat
– Preliminary data-collection and design for future experiments

Aug 2017

Berlin Atonal Music and Art Festival, Berlin, Germany
Artist
– Design, assembly, and operation of a large-scale commissioned light installation

Sept 2016 –
Feb 2017

EMIL@BESSY II, Helmholtz Zentrum (HZB), Berlin, Germany
Researcher
– Research in metal-induced crystallization of silicon under Dr. Simone Raoux
– Sputter deposition in ultrahigh vaccua, training in analytic methods used for the characterization of energy materials
– The Energy Materials In situ Laboratory (EMIL) is a joint venture between the Helmholtz Association and the Max Planck Society

Jan – July 2016

Physics Department, New York University, New York, NY
Research Intern
– Research in giant magnetoresistance under Dr. Andrew Kent
– Wire-bonding, soldering, circuit board and interface fabrication
– Investigation of the thermal stability of cobalt-nickel nanopillars

July – Aug 2015

Altova Softwarehaus, Vienna, Austria
Quality Assurance Intern
– Designed unit tests for Java SE 8 compatibility in Altova software products

2013 – 2016

Face The Music, New York, NY
Student-Teacher and Musician
– Worked with professional ensembles to perform contemporary-classical music in multiple New York venues

SKILLS

Spoken Languages:	English, German, Chinese (Elementary)
Programming Languages:	Java, Python, C, Bash, LaTeX, Lua
Software Tools:	LabView, IGOR, Origin, Fusion 360, SIMION

AWARDS

NYU Green Grant for Environmmental Awareness:	$10,000
NYU Dean's Undergraduate Research Fund Fellowship:	$3,000
DAAD RISE Scholarship from German Government:	$3,000